

ABSTRACT OF THE DISCLOSURE

A planar antenna has a radiating element and a ground plate. A body of a vehicle has an internal edge that is formed by making a hole in the body. The planar antenna is located in the hole so that an imaginary plane of the internal edge is located between the radiating element and the ground plate. In such a structure, electric lines of force perpendicularly pass through the body beside the planar antenna. As a result, electric fields are maintained in the vertical direction even if the planar antenna is mounted on the vehicle. This maintains a horizontal directivity of the planar antenna.